SECTION – C
(DESCRIPTIVE QUESTIONS)

Q – 14 (a) What is meant by Young's modulus of elasticity? How will you show that steel is more elastic than rubber?

(b) A metal bar of cross sectional area 1000 mm^2 is 4m long. A force of 5000 N increase its length by 0.25 mm. find young's modulus of the metal.

Q – 15 (a) Define force? How does Newton's Second Law of motion help in the measurement of force?

(b) What happens to the potential energy of a body, when dropped from certain height?

Q – 16 (a) What are spherical mirrors? Give some uses of spherical mirrors.

(b) The focal length of a convex lens is 10 cm. where should an image be placed to get (a) a real image (b) a virtual image twice the size of the objects?